

FIG. 1

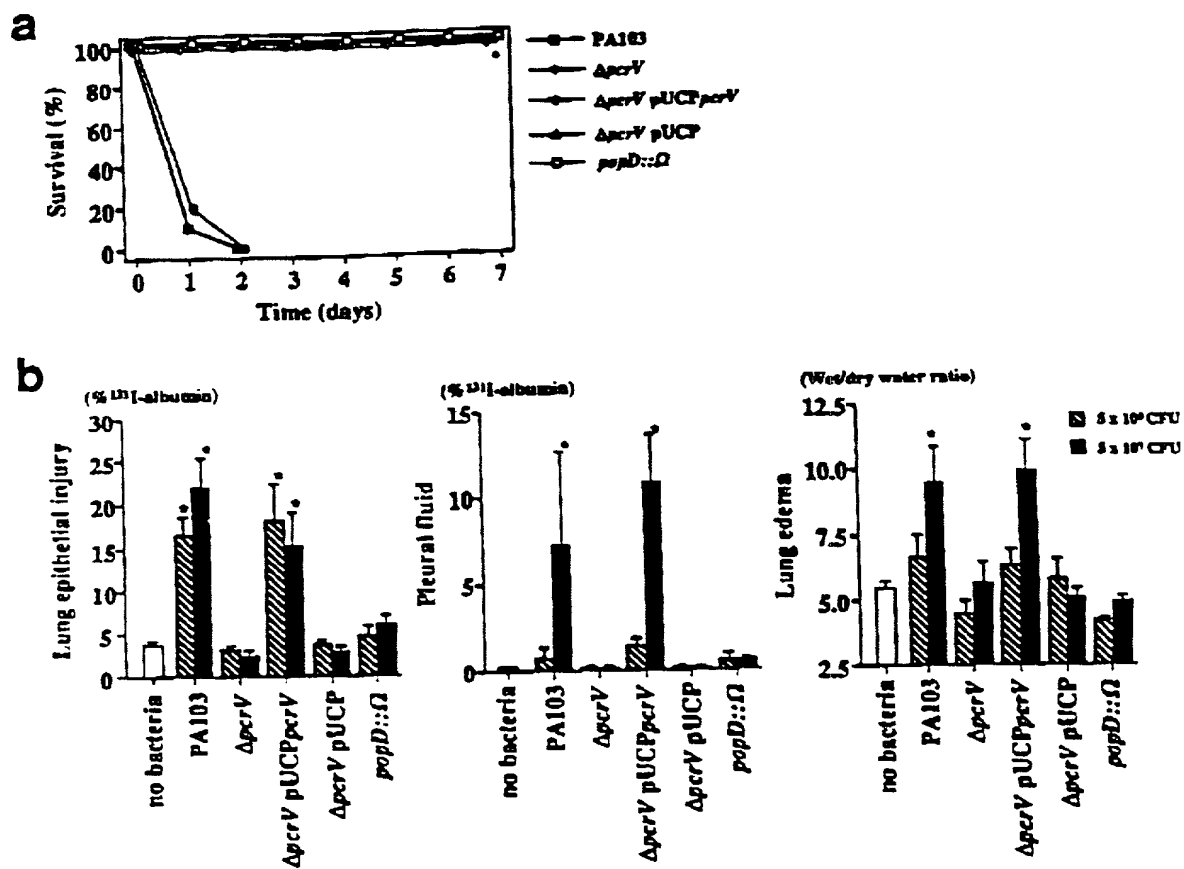
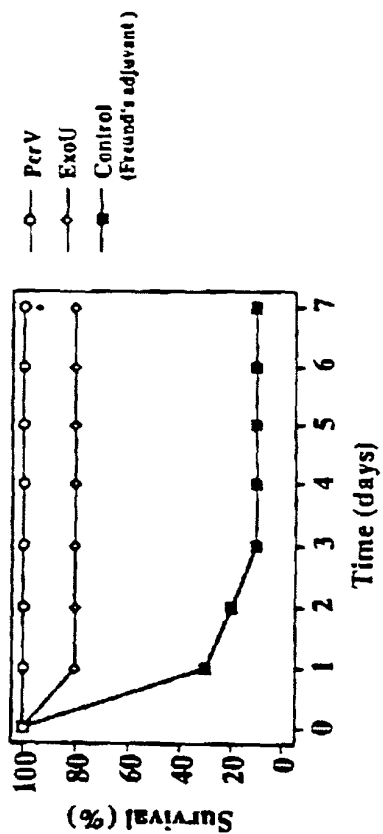


FIG. 2

a



b

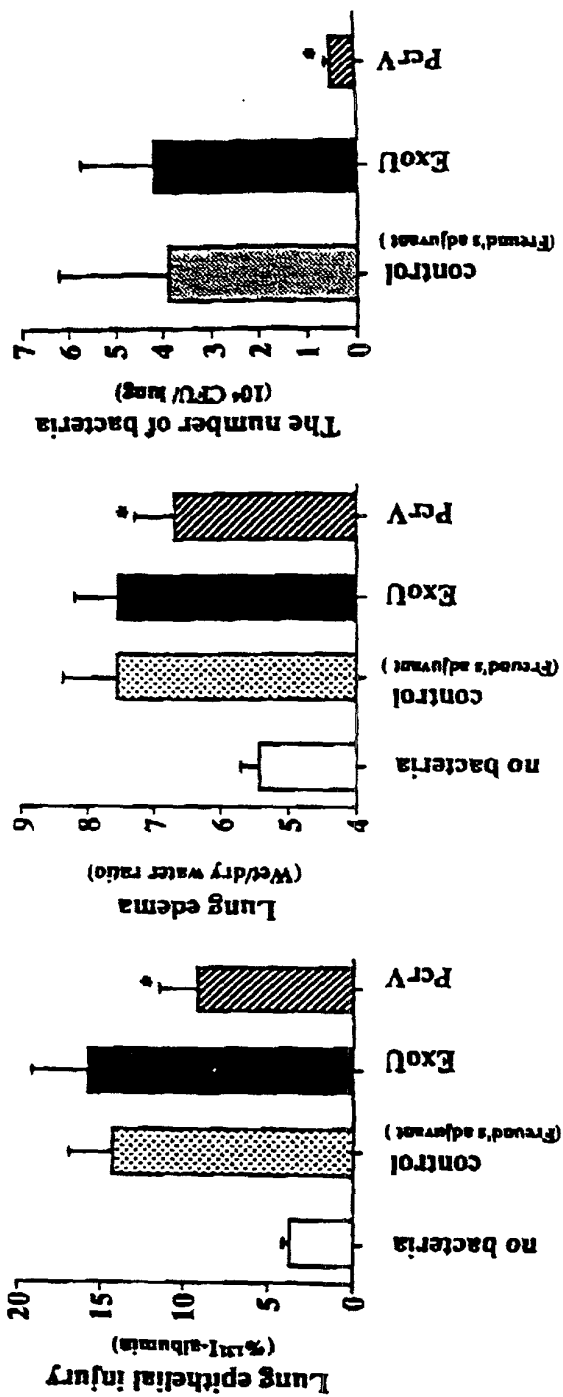


FIG. 3

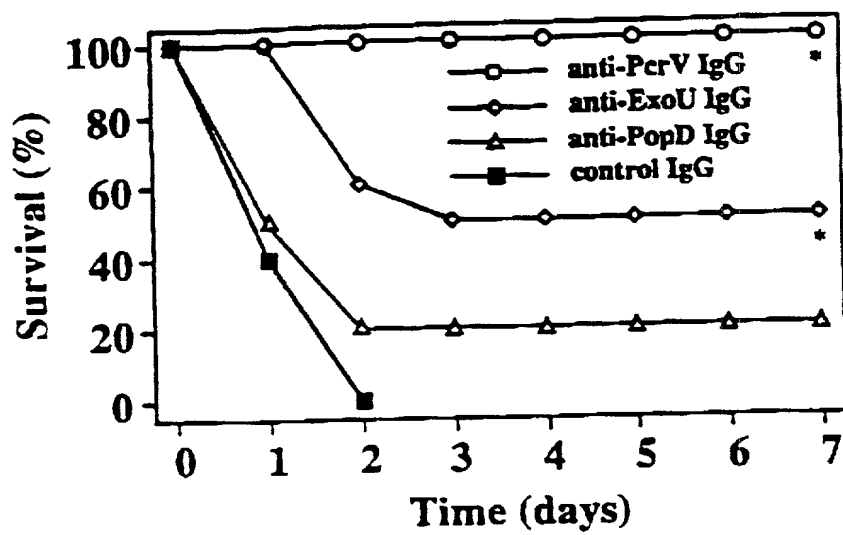


FIG. 4

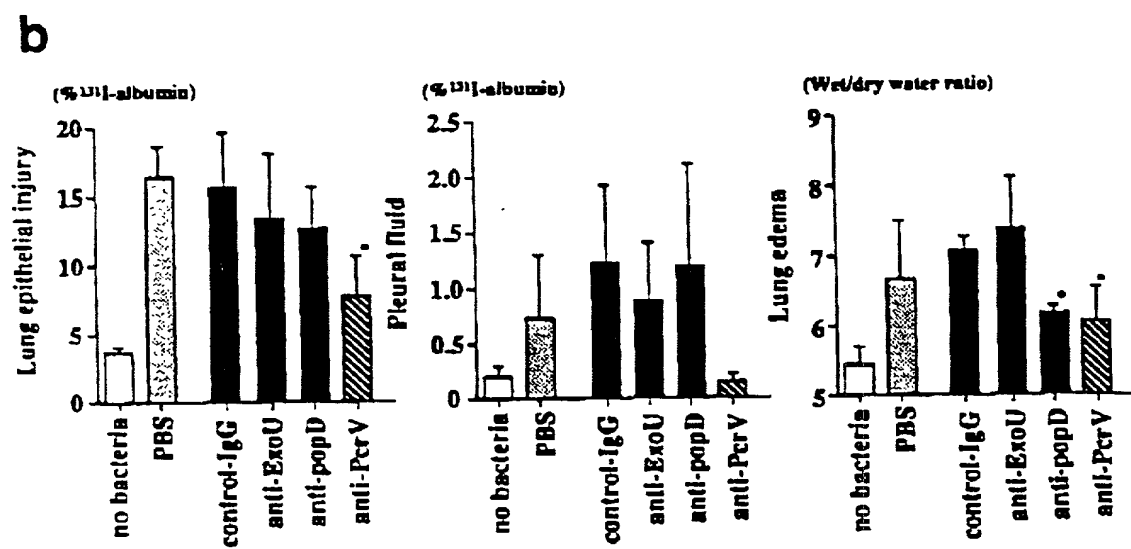
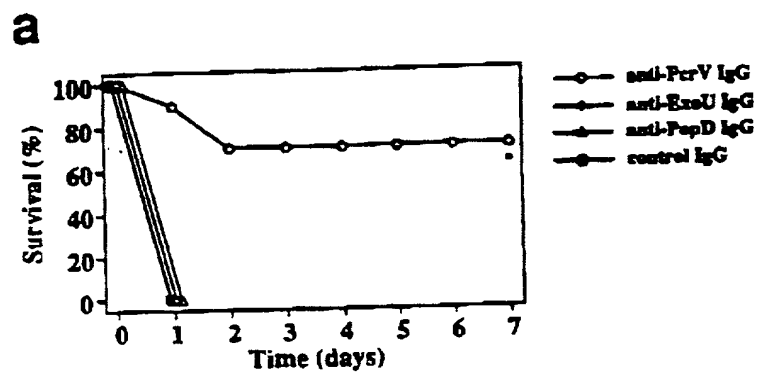


FIG. 5

m166 heavy chain

1. m166 heavy chain (IgG2b) complete mRNA sequence:

(From the transcriptional start point to the polyA-tail)

.....
CCATCCTCTT CTCATAGAGC CTCCATCAGA GCATGGCTGT CTTGGGGCTG
CTCTTCTGCC TGGTGACATT CCCAAGCTGT GTCCTATCCC AGGTGCAGCT
GAAGCAGTCA GGACCTGGCC TAGTGCAGCC CTCACAGAGC CTGTCCATCA
CCTGCACAGT CTCTGGTTTC TCATTAACTA GCTATGGTGT ACACTGGGTT
CGTCAGTCTC CAGGAAAGGG TCTGGAGTGG CTGGGAGTGA TATGGAGTGG
TGGAGACACA GACTATAATG CAGCTTTTCAT ATCCAGACTG AGCATCAGCA
AGGACAATTG CAAGAGCCAA CTCTTCTTTA AAATGAACAG TCTGCGAGCT
ACTGACACAG CCATATATTA CTGTGCCAGA AATAGAGGGG ATATTTACTA
TGATTTCACT TATGCCATGG ACTACTGGGG TCAAGGAACC TCAGTCACCG
TCTCCTCAGC CAAAACAACA CCCCCATCAG TCTATCCACT GGCCCCCTGGG
TGTGGAGATA CAACTGGTTC CTCCGTGACT CTGGGATGCC TGGTCAAGGG
CTACTTCCCT GAGTCAGTGA CTGTGACTTG GAACTCTGGA TCCCTGTCCA
GCAGTGTGCA CACCTTCCCA GCTCTCCTGC AGTCTGGACT CTACACTATG
AGCAGCTCAG TGAAGTCCC CTCCAGCACC TGGCCAAGTC AGACCGTCAC
CTGCAGCGTT GCTCACCAG CCAGCAGCAC CACGGTGGAC AAAAAACTTG
AGCCCAGCGG GCCCATTTCA ACAATCAACC CCTGTCTCTC ATGCAAGGAG
TGTCACAAAT GCCCAGCTCC TAACCTCGAG GGTGGACCAT CCGTCTTCAT
CTTCCCTCCA AATATCAAGG ATGTACTCAT GATCTCCCTG ACACCCAAGG
TCACGTGTGT GGTGGTGGAT GTGAGCGAGG ATGACCCAGA CGTCCAGATC
AGCTGGTTTG TGAACAACGT GGAAGTACAC ACAGCTCAGA CACAAACCCA
TAGAGAGGAT TACAACAGTA CTATCCGGGT GGTGAGCACC CTCCCCATCC
AGCACCAGGA CTGGATGAGT GGCAAGGAGT TCAAATGCAA GGTCAACAAC
AAAGACCTCC CATCACCCTAT CGAGAGAACC ATCTCAAAAA TTAAAGGGCT
AGTCAGAGCT CCACAAGTAT ACATCTTGCC GCCACCAGCA GAGCAGTTGT
CCAGGAAAGA TGTCAGTCTC ACTTGCCCTGG TCGTGGGCTT CAACCCTGGA
GACATCAGTG TGGAGTGGAC CAGCAATGGG CATAAGAGG AGAACTACAA
GGACACCGCA CCAGTCTCTGG ACTCTGACGG TTCTTACTTC ATATATAGCA
AGCTCAATAT GAAAACAAGC AAGTGGGAGA AAACAGATTG CTCTCATGC
AACGTGAGAC ACGAGGGTCT GAAAAATTAC TACCTGAAGA AGACCATCTC
CCGGTCTCCG GGTAAATGAG CTCAGCACCC ACAAAGCTCT CAGGTCTTAA
GAGACACTGG CACCCATATC CATGCATCCC TTGTATAAAT AAAGCATCCA
GCAAAGCCTG GTACCATGTA AAAAAAAAAA AAAAAAAAAA
.....

FIG. 6A

2. m166 heavy chain (IgG2b) complete amino acid sequence:

(From the start codon to the stop codon)

MAVLGLLFLCL VTFPSCVLSSQ VOLKQSGPGL VQPSQSLST CTVSGFSLTS
YGVHVVROSP GKGLEWLGVI WSGGDTDYNA AFISRLSISK DNSKSQLFFK
MNSLRATDTA IYYCARNRGD IYYDFTYAMD YWQGTSTVTV SSAKTTPPSV
YPLAPGCGDT TGSSVTLGCL VKGYFPESVT VTWNSGSLSS SVHTFPALLQ
SGLYTMSSSV TVPSTWPSQ TVTCSVAHPA SSTVDDKLE PSGPISTINP
CFPCKECHKC PPNLEGGPS VFIFPPNIKD VLMISLTPKV TCVVDVSED
DPDVQISWFV NNVEVHTAQT QTHREDYNST IRVVSTLPIQ HQDWMSGKEF
KCKVMNKDLF SPIERTISKI KGLVRAPQVY ILPPPAEQLS RKDVSLTCLV
VGFNPGDISV EWTSGHTEE NYKDTAPVLD SDGSYFIYSK LNMKTSKWEK
TDSFSCNVRH EGLKNYYLKK TISRSPGK[STOP]

[Sig-pep] MAVLGLLFLCLVTFPSCVLS

[VH-region]

FR1: QVQLKQSGPGLVQPSQSLSTCTVSGFSLT
CDR1: SYGVH
FR2: WVRQSPGKGLEWLG
CDR2: VIWSGGDTDYNAAFIS
FR3: RLSISKDNSKSQLFFKMNSLRATDTAIYYCAR
CDR3: NRGDIYYDFTYAMDY
FR4: WGQGTSTVTVSS

[CH-region]

CH:
AKTTPPSVYP LAPGCGDTTG SSVTLGCLVK GYFPESVTVT WNSGSLSSSV
HTFPALLQSG LYTMSSSVTV PSSTWPSQTV TCSVAHPASS TTVDKKLEPS
GPISTINPCP PCKECHKCPA PNLEGGPSVF IFPPNIKDVL MISLTPKVTC
VVVDVSEDDP DVQISWFVNN VEVHTAQTQT HREDYNSTIR VVSTLPIQHQ
DWMMSGKEFKC KVMNKDLFSP IERTISKIKG LVRAPQVYIL PPPAEQLSRK
DVSLTCLVVG FNPGDISEVW TSNGHTEENY KDTAPVLDSD GSYFIYSKLN
MKTSKWEKTD SFSCNVRHEG LKNYYLKKTI SRSPGK[STOP]

FIG. 6B

m166 light chain

1. m166 light chain (k) complete mRNA sequence:

(From the transcriptional start point to the polyA tail)

```

ACACCCTTTG CTGGAGTCAG AATCACACTG ATCACACACA GTCATGAGTG
TGCTCACTCA GGTCCTGGCG TTGCTGCTGC TGTGGCTTAC AGGTGCCAGA
TGTGACATCC AGATGACTCA GTCTCCAGCC TCCCTATCTG CATCTGTGGG
AGAAACTGTC ACCATCACAT GTCGAGCAAG TGGGAATATT CAAAATTATT
TAGCATGGTA TCAGCAGACA CAGGGAAAAT CTCCTCAGCT CCTGGTCTAT
TCTGCAAAAA CCTTAGCAGA TGGTGTGCCA TCAAGGTTCA GTGGCAGTGG
ATCAGGAACA CAATATTCTC TCAAGATCAA CAGCCTGCAG CCTGAAGATT
TTGGGAGTTA TTACTGTCAA CATTTTGGGA GTACTCCGTA CACGTTCCGA
GGGGGGACCA AGCTGGAAAT AAAACGGGCT GATGCTGCAC CAACTGTATC
CATCTTCCCA CCATCCAGTG AGCAGTTAAC ATCTGGAGGT GCCTCAGTCG
TGTGCTTCTT GAACAACCTT TACCCCAAAG ACATCAATGT CAAGTGGAAG
ATTGATGGCA GTGAACGACA AAATGGCGTC CTGAACAGTT GGAATGATCA
GGACAGCAAA GACAGCACCT ACAGCATGAG CAGCACCCCT ACGTTGACCA
AGGACGAGTA TGAACGACAT AACAGCTATA CCTGTGAGGC CACTCACAAG
ACATCAACTT CACCCATTGT CAAGAGCTTC AACAGGAATG AGTGTTAGAG
ACAAAGGTCC TGAGACGCCA CCACCAGCTC CCCAGCTCCA TCCTATCTTC
CCTTCTAAGG TCTTGGAGGC TTCCCACAA GCGACCTACC ACTGTTGCCG
TGCTCCAAAC TCCTCCCCA CCTCCTTCTC CTCTCCTCC CTTTCCTTGG
CTTTTATCAT GCTAATATTT GCAGAAAATA TTCAATAAAG TGAGTCTTTG
CAAAAAAAAA AAAAAAAAAA AAAAAAAAAA

```

2. m166 light chain (k) amino acid complete sequence:

(From the start codon to the stop codon)

```

MSVLTQVLAL LLLWLTGARC DIQMTQSPAS LSASVGETVT ITCRASGNIQ
NYLAWYQQTQ GKSPQLLVYS AKTLADGVPS RFSGSGSGTQ YSLKINSLOP
EDFGSYQCQH FWSTPYTFGG GTKLEIKRAD APTVSIFPP SSEQLTSGGA
SVVCFLNIFY PKDINVWKI DGSERQNGVL NSWTDQDSKD STYSMSSTLT
LTKDEYERHN SYTCEATHKT STSPIVKSFN RNEC [STOP]

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[Sig-pep] MSVLTQVLALLLLWLTGARC

[VL-region]

FR1: DIQMTQSPASLSASVGETVTITC

CDR1: RASGNIQNYLA

FR2: WYQQTQGKSPQLLVY

CDR2: SAKTLAD

FR3: GVPSRFSGSGSGTQYSLKINSLOPEDFGSYQC

CDR3: QHFWSTPYT

FR4: FGGGTKLEIKR

[CL-region]

CL: ADAAPTVSIFPPSSSEQLTSGGASVVCFLNIFYPKDINVWKIDGSEKQNGVL

NSWTDQDSKDSTYSMSSTLTLTDEYERHNSYTCEATHKTSTSPIVKSFN RNEC [STOP]

FIG. 7